

Name: _____

Systems Word Problem Project

Rough Draft due Friday, November 4th

Rough Draft Grade: _____ /10

Directions: Create a SYSTEMS of linear EQUATIONS word problem and solve the system yourself. You MUST be original in the wording of your problem and the numbers involved. (You will receive no credit if you take a problem from the textbook or online or your notes, use those values and just change some of the words or things involved.) You have FREEDOM over which type of systems word problem you create (ie: pricing, farm animals, transportation, mixtures, anything!). **If you want an extra challenge, try mixtures, system of linear inequalities word problem, a type not taught in class or create a system of THREE equations.**

1. The Situation: (Write your situation here; include all important information and the TWO questions. Use only words - write out all numbers. Don't forget to annotate.)

2. The Variables: (Define your variables here.)

3. The System: (Write your system of equations here.)

4. The Solving Process: (Solve your system algebraically here.)

5. The Checking: (Check your solution here via substitution and **reality**. Be sure to write out your reality check.)

6. The Solutions: (Write your solutions here in a complete sentence with labels.)

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Final Product: Friday, November 18th

Directions: After completing the Rough Draft and having your systems word problem approved by Ms. Chall or Ms. Kolb, you now must choose how to present your project using one of the options in the chart below. ***Keep in mind that whatever option you choose now cannot be reused for a future project.***

IMPORTANT: Your final product should display, explain and interpret your word problem. You should not just list the steps, but should creatively showcase the word problem so that the average reader/viewer can understand your problem! **DO NOT TRY TO SUBMIT YOUR ROUGH DRAFT AS YOUR PROJECT. YOUR ROUGH DRAFT IS A HOMEWORK GRADE AND WILL NOT BE COUNTED FOR YOUR PROJECT!**

ALL PRESENTATIONS MUST CLEARLY SHOWCASE ALL SIX PARTS OF YOUR WORD PROBLEM!

PowerPoint	Paper (1 page minimum)	Speech (with prop)
Poem	Skit	Video/Movie
Song	Poster	Booklet

Requirements for Each Presentation Product

It is your responsibility to examine and follow the project requirements for your particular mode of presentation.

PowerPoint: Your PowerPoint must be a minimum of 6 slides. Each slide must contain a picture. All six parts of your word problem must be included and correct spelling and grammar is required. Creativity is a must! Your PowerPoint must be EMAILED or shared via Google drive (no flash drives).

Paper: Your paper must be typed in proper MLA format. Your paper should include all six parts of your word problem with *additional information about the creation and your thinking process*. Spelling and grammar count! ONE PAGE MINIMUM. Your paper must be PRINTED out or EMAILED or shared via Google drive (no flash drives).

Speech (with a Prop): Your speech must be a minimum of 2 minutes and a maximum of 5 minutes. You must present all six parts of your word problem and you may use notecards to guide you. You should make eye contact with your audience, speak at a pace and volume that can be clearly understood, and there should be evidence that you have practiced your speech. A PROP RELATED TO YOUR WORD PROBLEM IS REQUIRED.

Poem: Your paper must be typed in proper MLA format. Your poem should include all six parts of your word problem with room for creativity. Your poem can be in any form you like, but you need a minimum of three stanzas with a minimum of three lines each. Spelling counts!

Skit: Your skit must be a minimum of 2 minutes and a maximum of 5 minutes. You must present all six parts of your word problem through your skit and you may use notecards to guide you. You should speak at a pace and volume that can be clearly understood, and there should be evidence that you have practiced your skit. **ALTHOUGH YOU MAY USE OTHER STUDENTS IN YOUR CLASS SECTION FOR YOUR SKIT, THESE STUDENTS WILL NOT RECEIVE CREDIT FOR YOUR SKIT AND YOU MUST REHEARSE WITH THEM OUTSIDE OF CLASS TIME.**

Video/Movie: Your video/movie must be a minimum of 2 minutes and a maximum of 5 minutes. You must present all six parts of your word problem through your movie. Creativity is a **MUST**, but the algebra must be clear. Your video/movie **MUST** be EMAILED, available on the Internet or burned to a DVD that can be played on a DVD player.

Song: Your song must be a minimum of 2 minutes and a maximum of 5 minutes. You must present all six parts of your word problem and you must either record your song ahead of time (to be played in class) or play it live for the class.

Poster: Your poster must be at least 12" by 12" and should be on posterboard or cardstock. All six parts of your word problem must be present on your poster. Your poster must be neat, colorful and creative and include an additional element besides text (ie: scrapbooking embellishment, drawing, ribbons, etc). Spelling and grammar count!

Booklet: Your booklet must be a minimum of 6 pages, including a title page. All six parts of your word problem must be presented, and you must have a drawing or picture on each page. Spelling and grammar count and creativity is a must! Your booklet **CANNOT** be on looseleaf paper and must be creatively bound.

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Word Problem Final Project Product Rubric

	Unsatisfactory (0-7)	Satisfactory (8-16)	Outstanding (17-20)	Score
Creativity and Difficulty of Word Problem	Word problem is not creative or challenging.	Word problem is somewhat creative and challenging.	Word problem is creative, has a personal touch, an appropriate level of difficulty for you and has extra information in order to mislead the reader.	
Presentation Product <i>See previous page for requirements for your choice of project product.</i>	Presentation product does not fulfill the requirements. Product demonstrates minimal effort.	Presentation product somewhat or mostly fulfills the requirements. Product demonstrates a moderate level of effort.	Presentation product fully meets all of the requirements. Student clearly spent time and effort creating an excellent final product.	
Algebraic Problem-Solving Process	Word problem is not solved algebraically and/or accurately.	Word problem is solved using some or most of the algebraic problem solving steps and is mostly accurate.	Word problem is solved thoroughly using all of the algebraic problem solving steps and is completely accurate.	
Clarity and Explanation of Problem-Solving Process	Your final product is missing critical elements, does not include an explanation and/or your word problem is unclear.	Your final product somewhat or mostly displays your word problem. Explanations and interpretations may be unclear.	Your final product displays, explains and interprets all six parts of your word problem. You creatively showcase the word problem so that the average reader/viewer can understand your problem.	
Total				/80

Teacher Comments:

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